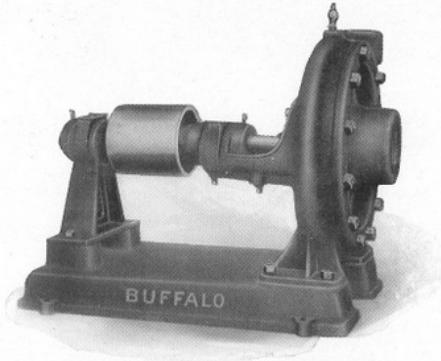


BUFFALO

Single Suction Class "O"
Centrifugal Pumps



Bulletin 957

Buffalo Steam Pump Co.
Buffalo, N. Y.

New York
Boston
Philadelphia
Pittsburgh
Charlotte, N. C.

Cleveland
Detroit
Chicago
St. Louis
Los Angeles

New Orleans
Atlanta
Minneapolis
Denver
Salt Lake City

Canadian Blower & Forge Co., Ltd.
Kitchener, Ont., Canada

Toronto Montreal Calgary Vancouver St. John.

Buffalo Class "O" Centrifugal Pumps

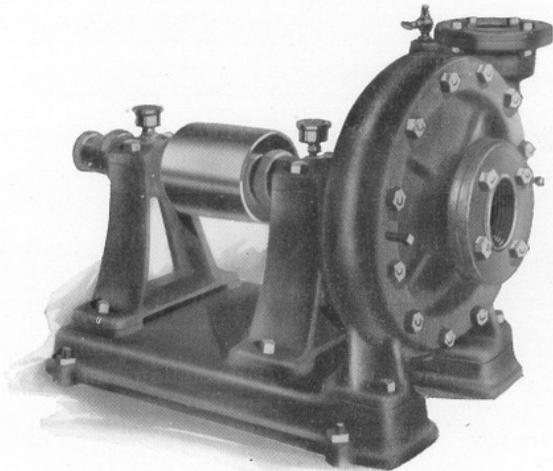


Fig. 942

Buffalo Class "O" Pumps are of the single open end suction type. They are built in sizes from $\frac{1}{2}$ " to 3" for capacities from 8 to 325 gallons per minute, and for heads up to 100 ft. They can be arranged for either pulley drive or for direct connection to a motor.

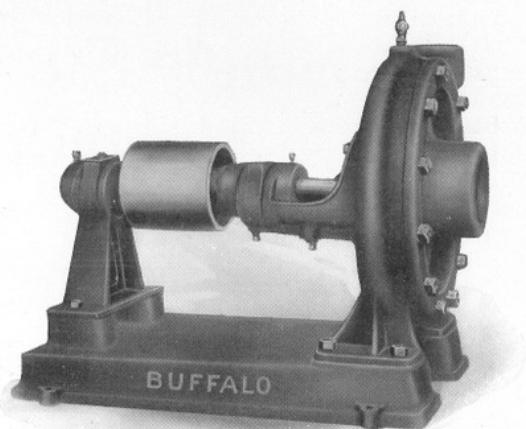


Fig. 943

Class "O" Pumps are regularly furnished for right hand rotation and up discharge. Left hand rotation and other positions of discharge opening can be furnished on special order.

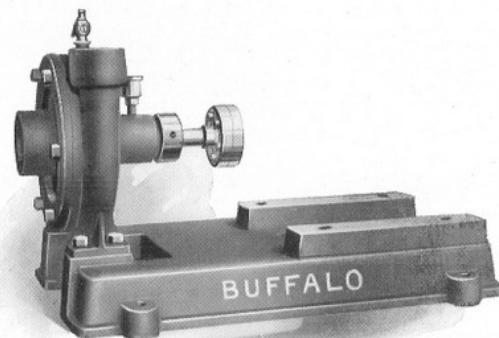


Fig. 944

Standard construction includes an enclosed type brass impeller, finished all over, assuring high efficiency. Where service requires, an open type impeller can be used with only a small decrease in efficiency.

Bearings are large and well lubricated. Ample provision is made on all sizes for taking care of any thrust action.

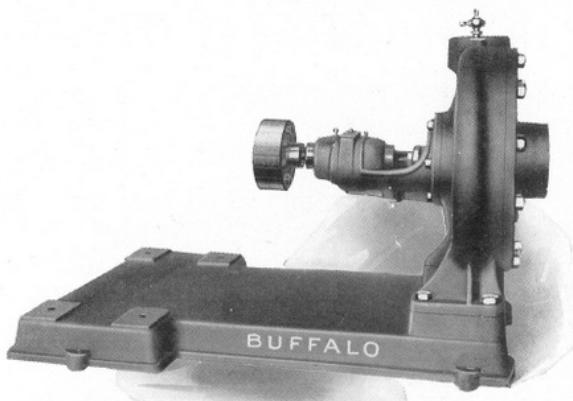


Fig. 945

Weight has been reduced as much as possible consistent with good design, allowing Buffalo Class "O" Pumps to be built in brass or bronze with a very low first cost.

Buffalo Class "O" Centrifugal Pumps

Specifications

CASINGS GOOD FOR 100 FT. PRESSURE

Casing and Suction Side Plate: Cast iron, machined to gauge, drilled to template. Close clearance with impeller, preventing leakage.

Suction: Open end single suction.

Impeller: Brass, single suction enclosed type. Open iron impeller can be furnished on special order.

Shaft: Steel, finished all over. Cannot be brass covered. Monel metal can be furnished on special order.

Shaft Bearings: Grease lubricated on $1\frac{1}{2}$ " and smaller pumps. Ring oiling on 2" and larger pumps. All bearings babbitted.

Thrust Bearing: Thrust collar.

Gland: Brass on $1\frac{1}{2}$ " and smaller pumps. Cast iron on 2" and larger pumps.

Subbase: Cast iron, ribbed and stiffened.

Coupling: Flanged. Flexible type cannot be furnished.

Fittings: Grease cups and air cocks.

Finish: All pumps painted, filled and rubbed down. Bright parts exposed to weather protected by slushing compound.

Code Word, Regular Fitted, Pulley Driven	Figure Number		Size of Pump, Inches	Pipe Sizes, Inches		Capacity, Gallons per Minute		Size of Pulley, Inches		Approximate Floor Space, Inches
	Pulley Driven	Direct Connected to Motor.		Suction	Discharge	Normal	Maximum	Diameter	Face	
MKHVR	942	944	$\frac{1}{2}$	1	$\frac{1}{2}$	8	12	3	3	17x12
MKHYZ	942	944	1	$1\frac{1}{2}$	1	25	35	3	3	17x12
MKIGM	942	944	$1\frac{1}{2}$	2	$1\frac{1}{2}$	55	75	4	4	19x14
MKIHN	943	945	2	$2\frac{1}{2}$	2	100	140	5	5	22x15
MKLJP	943	945	$2\frac{1}{2}$	3	$2\frac{1}{2}$	155	225	6	5	27x18
MKIKT	943	945	3	4	3	225	325	7	6	29x26

Add Code Word JCEZR for Open Iron Impeller.

Add Code Word JCGMP for Monel Metal Shaft.

Add Code Word JCWAF for Motor Base and Flanged Coupling.

Speed Limits

Size of Pump, Inches	Normal Capacity, Gallons per Minute	Speed Limits	Revolutions per Minute for Total Heads of 5 to 100 Feet.														
			5'	10'	15'	20'	25'	30'	35'	40'	45'	50'	60'	70'	80'	90'	100'
$\frac{1}{2}$	8	Min. Max.	875 1450	1175 1950	1375 2425	1575 2900	1750 3200	1900 3400	2050 3500	2175 3500	2325 3500	2450 3500	2700 3500	2900 3500	3100 3500	3250 3500	3400 3500
1	25	Min. Max.	900 1500	1200 2000	1420 2500	1620 3000	1800 3300	1950 3500	2100 3500	2250 3500	2400 3500	2520 3500	2780 3500	3000 3500	3200 3500	3350 3500	3500 3500
$1\frac{1}{2}$	55	Min. Max.	600 1100	800 1450	930 1800	1060 2050	1180 2280	1290 2480	1400 2680	1480 2870	1580 3060	1660 3200	1820 3200	1970 3200	2110 3200	2240 3200	2360 3200
2	100	Min. Max.	500 900	700 1200	830 1420	950 1640	1050 1830	1140 2020	1220 2180	1300 2360	1370 2500	1440 2640	1570 2900	1680 3100	1800 3100	1900 3100	1990 3100
$2\frac{1}{2}$	155	Min. Max.	460 800	600 1100	720 1300	810 1520	900 1720	980 1880	1050 2020	1100 2170	1170 2300	1220 2400	1340 2650	1440 2860	1530 3000	1610 3000	1700 3000
3	225	Min. Max.	440 800	480 1100	550 1300	610 1520	670 1720	720 1880	780 2020	820 2170	870 2300	920 2400	1000 2600	1080 2700	1160 2800	1220 2850	1290 2900

Pulley driven pumps operate at minimum speeds as given in table above.

Buffalo Class "O" Centrifugal Pumps

Designation of Parts, Fig. 1040

Number of Part.	Name of Part.
308	Casing
309	Suction Side Plate
310	Impeller
311	Shaft
312	Stuffing Box
313	Bushing
314	Thrust Collar
315	Gland

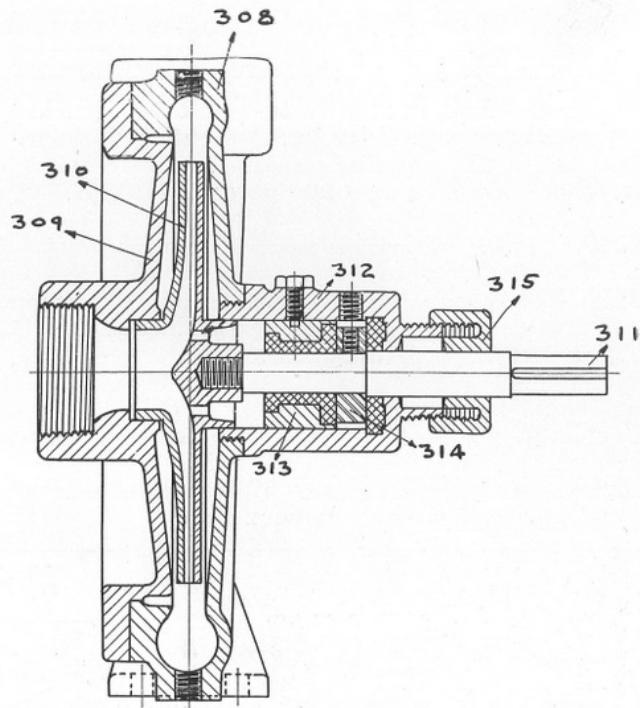


Fig. 1040
Sectional View $\frac{1}{2}$ ", 1", and $1\frac{1}{2}$ " Class "O" Pumps.

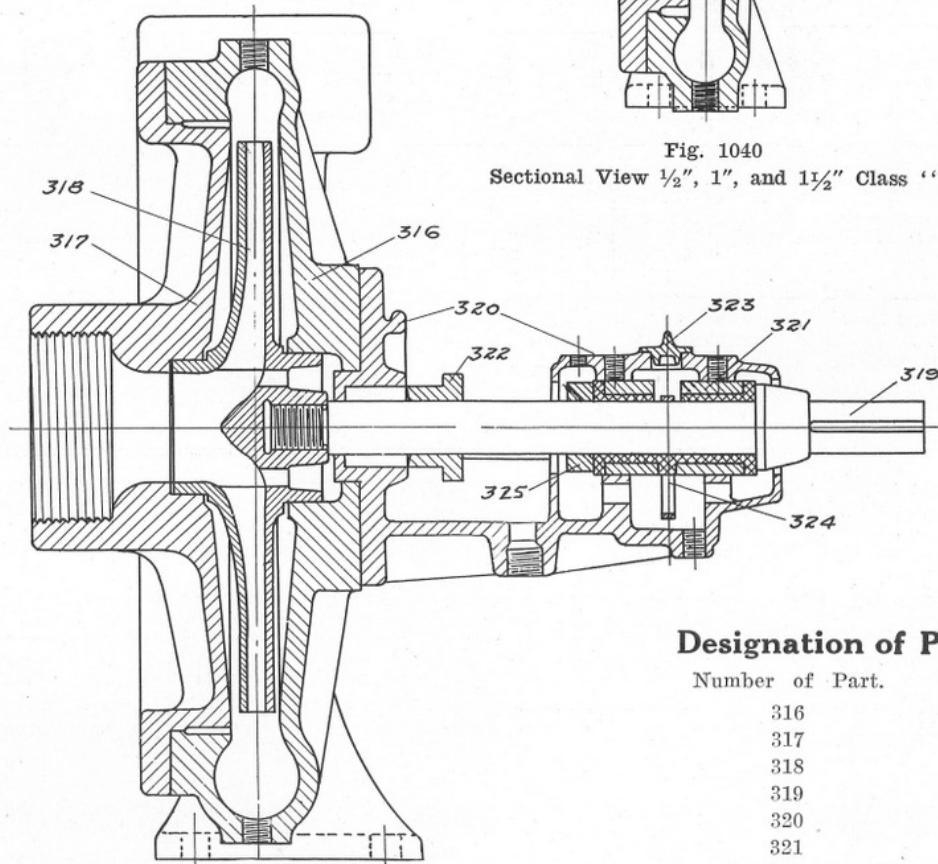


Fig. 1041
Sectional View 2", $2\frac{1}{2}$ ", and 3" Class "O" Pumps.

Designation of Parts, Fig. 1041

Number of Part.	Name of Part.
316	Casing
317	Suction Side Plate
318	Impeller
319	Shaft
320	Bearing
321	Bearing Bushing
322	Gland
323	Oil Cover
324	Oil Ring
325	Thrust Collar

SCANNED BY: AEM OF LOCKPORT NY USA

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ELMA, NEW YORK USA

COURTESY OF: WESTERN NY GAS & STEAM ENGINE ASSOCIATION

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NOTE: ORIGINAL DOCUMENT HAD WATER DAMAGE